

ABSTRACT OF THE DISCLOSURE

A biconical antenna for wireless communications includes a conical upper conductive body and a conical lower conductive body having a common apex, which is used as a power feed point, wherein a space between the conical upper and lower conductive bodies is filled with a dielectric material such that a shortest distance connecting the conical upper and lower conductive bodies along a surface of the dielectric material is a curve at which an incident angle of an incident wave incident on the surface of the dielectric material through the dielectric material from the common apex is a Brewster angle over the entire surface of the dielectric material.